

INPUT	INPUT PACKET INFORMATION	ATION		TRA	TRANSFER METHOD	
DESTINATION IP ADDRESS	DESTINATION PORT No.	VLAN-1D	DESTINATION IP ADDRESS	DESTINATION PORT No.	DESTINATION MAC ADDRESS	OUTPUT PORT
10.1.1.1	80, 8080	100	10.2.2.2	1	0x00:ab:da:32:45:67	-
20. 2. 2. 2	7070	200	l	0808	0x00:da:cf:12:34:56	2
:	•	•	•	•		•

INPUT P.	INPUT PACKET INFORMATION	NOI			TRANSFER METHOD	METHOD		
DESTINATION IP ADDRESS	DESTINATION PORT No.	VLAN-1D	SOURCE IP ADDRESS	DESTINATION DESTINATION IP ADDRESS PORT No.	DESTINATION PORT No.	DESTINATION MAC ADDRESS	VLAN-1D	MPLS LABEL
20. 1. 1. 1	0808	100	1	20. 2. 2. 2	1	0x00:12:34:56:78:9a	200	
30. 1. 1. 1	0/0/	200	40.1.1.1	30. 3. 3. 3	08	0x00:bc:de:f0:12:34	l	
40.1.1.1	ARBITRARY	100	-	1	ı	I	DELETED	222
• • •						• • •		

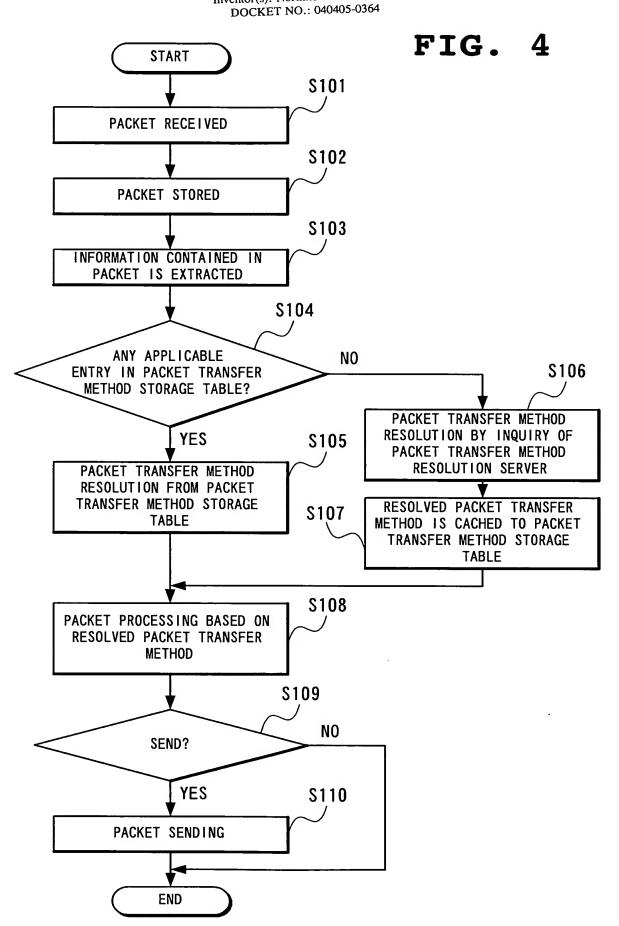


FIG. 5

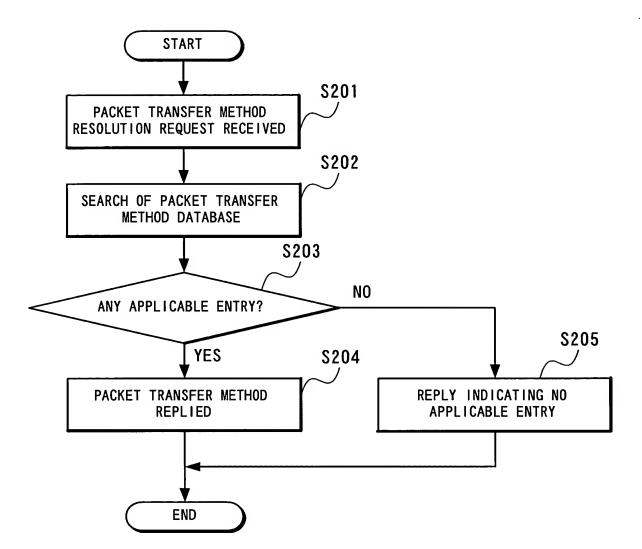


FIG 6



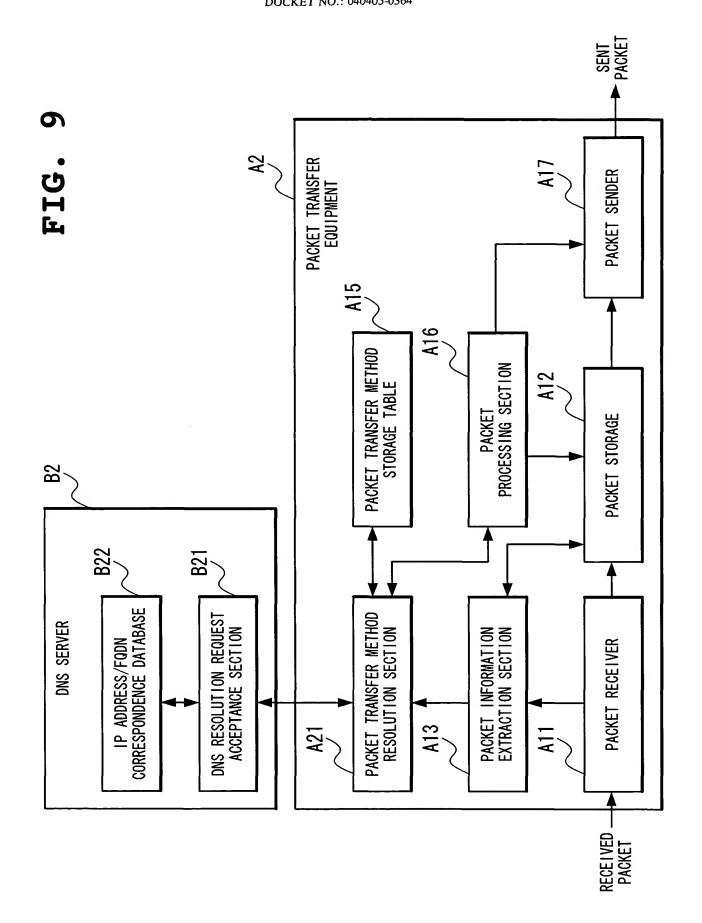
RECEIVE PORT	EXTRACTED PACKET INFORMATION
80	URL , COOKIE
OTHER THAN 80	DESTINATION IP ADDRESS, VLAN-ID

Inventor(s): Norihito FUJITA, et al. DOCKET NO.: 040405-0364

· · · ·		1			
	VLAN-1D	100	200	200	
TRANSFER METHOD	DESTINATION MAC ADDRESS	0x00:12:34:56:78:9a	0x00:bc:de:f0:12:34	0x00:98:76:54:32:10	• • •
	SOURCE IP ADDRESS	50.1.1.1	50.1.1.1	60. 1. 1. 1	
ON	VLAN-ID	I	100	200	
INPUT PACKET INFORMATION	DESTINATION IP ADDRESS		1	20. 30. 40. 50	•
INPUT P	URL	₩₩. ааа. сош/*	www.bbb.net/*	I	

0	0
r	و
F	4
Ŀ	Ļ

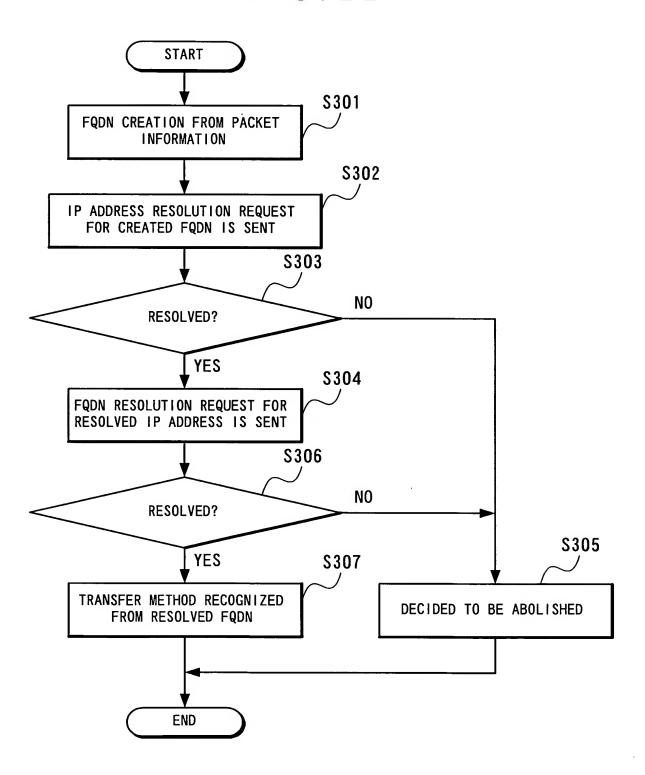
	VLAN-1D	200	l	300	•
ЕТНОО	DESTINATION MAC ADDRESS	0x00:12:34:56:78:9a	0x00:bc:de:f0:12:34	0x00:98:76:54:32:10	• • •
TRANSFER METHOD	DESTINATION PORT No.		08	i	
	DESTINATION IP ADDRESS	20. 2. 2. 2	30. 3. 3. 3	-	
	SOURCE IP ADDRESS		40. 1. 1. 1	60. 1. 2. 3	
NOI	VLAN-1D		100	200	•
INPUT PACKET INFORMATION	DESTINATION IP ADDRESS			20. 30. 40. 50	
INPUT P.	URL	₩₩. ааа. сош/*	www.bbb.net/*	1	•

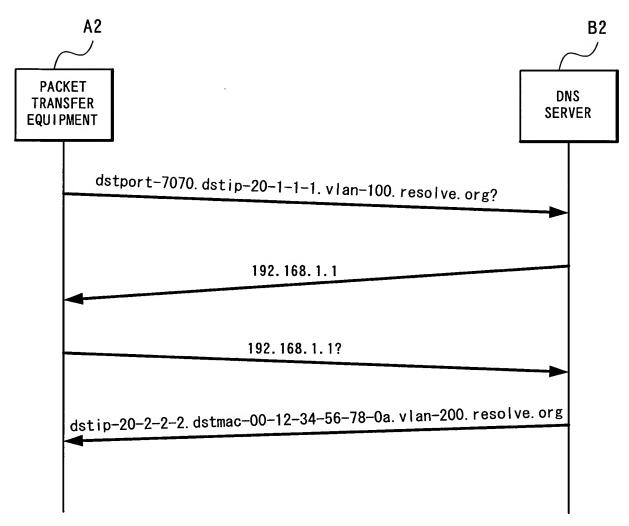


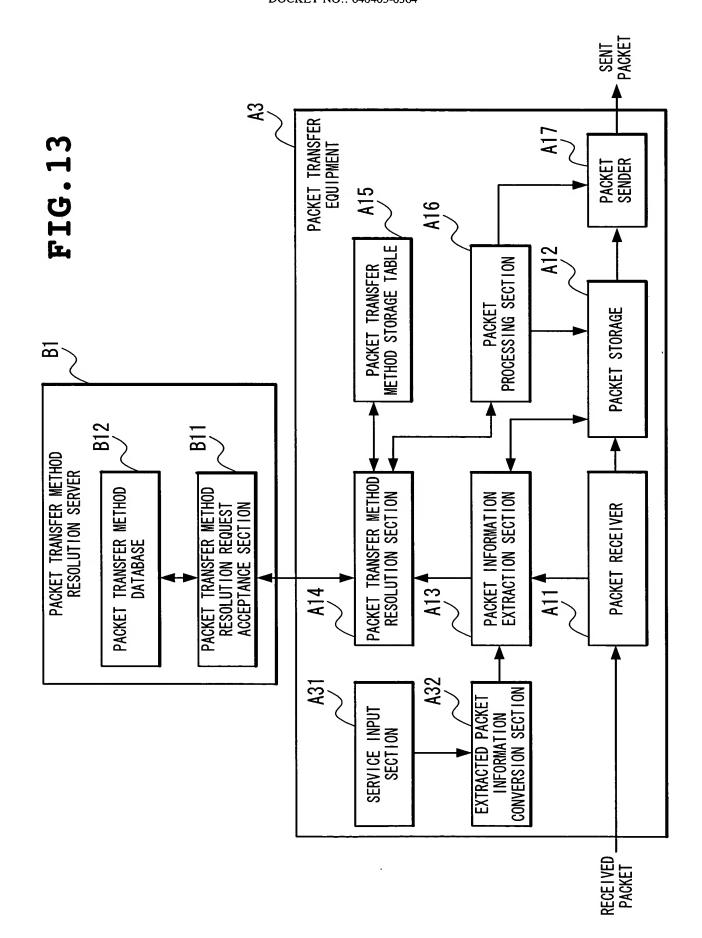
FODN	IP ADDRESS
dstport-7070.dstip-20-1-1.vlan-100.resolve.org	192. 168. 1. 1
dstport-7070.dstip-30-1-1-1.vlan-200.resolve.org	192. 168. 2. 2

FQDN	dstip-20-2-2. dstmac-00-12-34-56-78-0a. vlan-200. resolve. org	srcip-30-3-3-3. dstport-8080. dstmac-00-bc-de-f0-12-34. resolve. org	•
IP ADDRESS	192. 168. 1. 1	192. 168. 2. 2	

FIG. 11

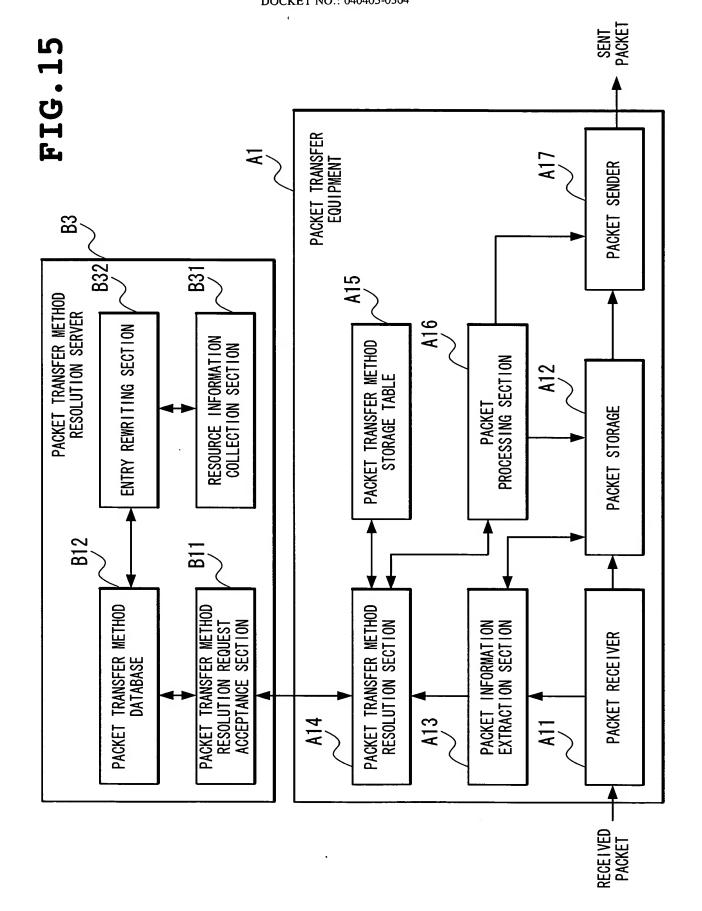




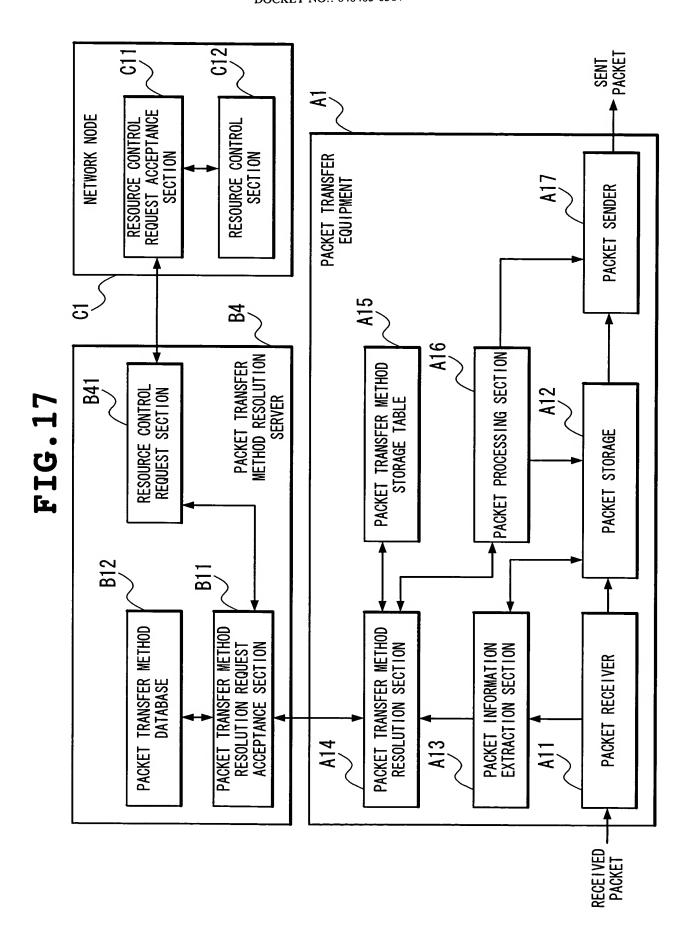




SERVICE	EXTRACTED PACKET INFORMATION
LAYER 2 SWITCH SERVICE	DESTINATION MAC ADDRESS, VLAN-ID
ROUTER SERVICE	DESTINATION IP ADDRESS
LAYER 4 SWITCH SERVICE	DESTINATION TCP/UDP PORT No., DESTINATION IP ADDRESS
LAYER 7 SWITCH SERVICE	URL, COOKIE, SOURCE IP ADDRESS

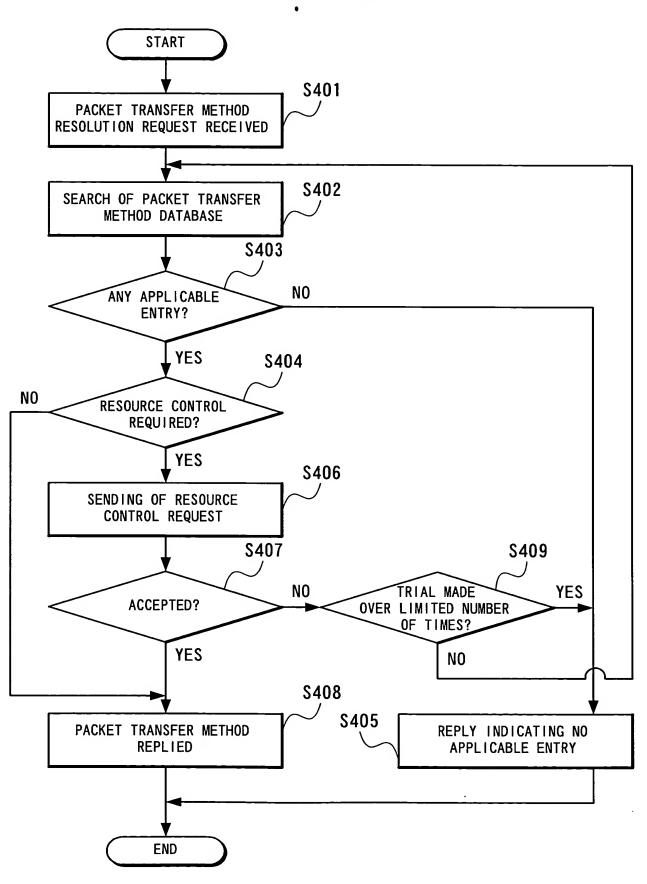


INPUT PACKET INFORMATION	INFORMATION		TRANSFEF	TRANSFER METHOD	
URL	RESOURCE REQUEST	URL	DESTINATION IP ADDRESS	DESTINATION MAC ADDRESS	user- priority
www.movie.org/aaa.fmt	IMPORTANCE PLACED ON WIDE DOWNSTREAM BAND		20. 2. 2. 2	0x00:12:34:56:78:9a	7
www.text.net/bbb.txt	IMPORTANCE PLACED ON LOW DELAY	www.text.net/ccc.txt	-	0x00:bc:de:f0:12:34	2
•	•	•		•	

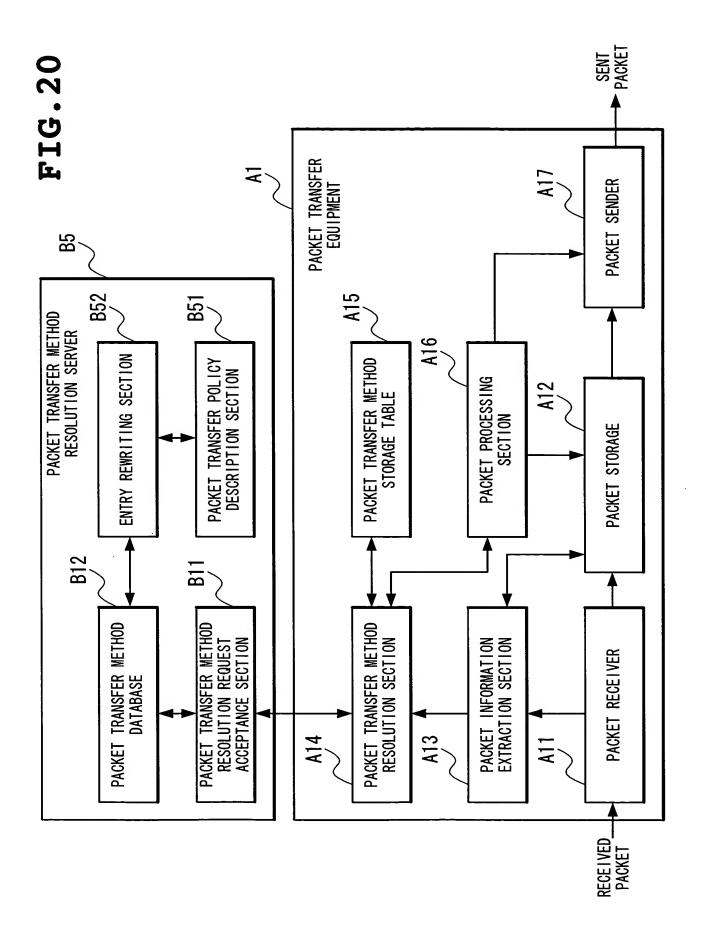


INPUT PACKET INFORMATION
VLAN-ID SOURCE IP ADDRESS
100 10. 4. 4. 4
200 —
200 10. 6. 6. 6

FIG 19



Title: PACKET TRANSFER EQUIPMENT,
PACKET TRANSFER METHOD
RESOLUTION SERVER, DNS SERVER,
NETWORK SYSTEM AND PROGRAM
Inventor(s): Norihito FUJITA, et al.
DOCKET NO.: 040405-0364



DOCKET NO.: 040405-0364

_	4
C	V
	•
ζ	ל
۲	4
Ŀ	4

POLICY		IORITY MES	181L1TY	
PACKET TRANSFER POLICY		TRANSFER WITH PRIORITY UP TO 1000 TIMES	TRANSFER AT PROBABILITY OF 60%	:
	DESTINATION VLAN-ID	100	_	•
TRANSFER METHOD	DESTINATION IP ADDRESS	20.1.1.1	30.1.1.1	
	URL	www.biglobe.net	WWW. XYZ. COM	•••
NFORMATION	DESTINATION PORT No.	08	8080	• • •
INPUT PACKET INFORMATION	URL	www.portal.com	www.abc.org	•

DOCKET NO.: 040405-0364

	T					
	SELECTION STANDARD	SELECTED WITH PRIORITY FOR 1,000 MORE TIMES	SELECTED IN DEFAULT SETTING	SELECTED WITH A WEIGHT OF 60%	SELECTED WITH A WEIGHT OF 40%	:
TRANSFER METHOD	DESTINATION VLAN-ID	100	100	-	200	•
TRA	DESTINATION IP ADDRESS	20.1.1.1	-	30. 1. 1. 1	_	•
	URL	www.biglobe.net	; l	WWW. XyZ. COM	-	
NFORMATION	DESTINATION PORT No.	8	8	Ooo		
INPUT PACKET INFORMATI	URL	4 3 CG 20000	www. pol cal.	C C mount	mm, anc. of g	:

FIG. 23 (PRIOR ART)

TYPE OF INFORMATION CONTAINED IN PACKET TYPE OF INFORMATION RELATED TO TRANSFER METHOD	1 TYPE (FIXED)	1 TYPE (DETERMINED FOR EACH PACKET)	SEVERAL TYPES (FIXED)	SEVERAL TYPES (DETERMINED FOR EACH PACKET)
1 TYPE (FIXED)	Ą	E	l	×
1 TYPE (DETERMINED FOR EACH PACKET)	В	J	ſ	Z
SEVERAL TYPES (FIXED)	9	9	¥	0
SEVERAL TYPES (DETERMINED FOR EACH PACKET)	D	H	Γ	ď